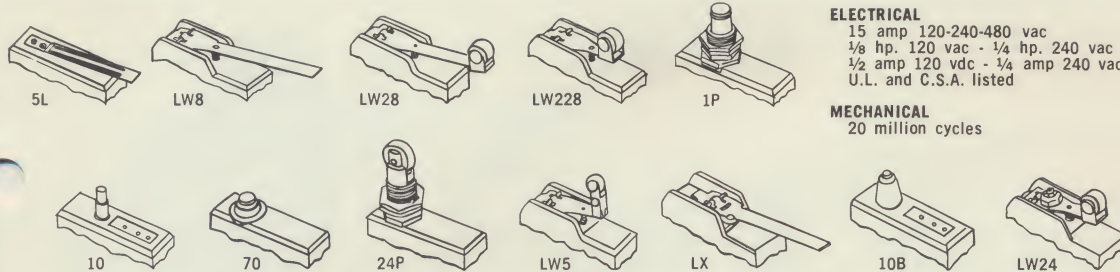


Robertshaw

PRECISION SWITCHES

PRECISION SNAP SWITCH CROSS REFERENCE CHART

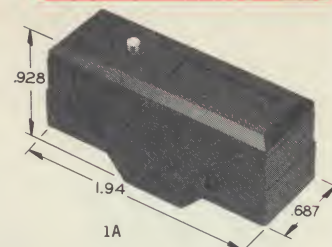
HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price
AD5721	A90R	1.00	BZ-7RT	BRD7-1A-5S	2.00	BZ-2RQ18-A2	BRD2-24P-1S	6.25	BZ-2RW855T	BRD2-LW8B-5S	2.90
ADA3721	A90A	1.48	BZ-RD	BRD-70-1S	1.94	BZ-2RQ18-P4	BRD2-24P-4T	6.40	BZ-2RW863	BRD2-LW863	2.00
BA-2R	FAD2-1A	1.83	BZ-RD-A2	BRD2-70-1S	2.02	BZ-2RQ18T	BRD2-24P-5S	6.25	BZ-2RW863-A2	BRD2-LW863-1S	2.10
BA-2R-A2	FAD2-1A-1S	1.65	BZ-2RD	BRD2-70	1.85	BZ-2RQ66	BRD2-6PQK	3.64	BZ-2RW863-P4	BRD2-LW863-4T	2.36
BA-2R-P1	FAD2-1A-4T	2.10	BZ-2RD-A2	BRD2-70-1S	1.95	BZ-2RQ67	BRD2-7PNK	4.14	BZ-2RW863T	BRD2-LW863-5S	2.10
BA-2R-P4	FAD2-1A-4T	2.10	BZ-2RD-P4	BRD2-70-4T	2.10	BZ-2RQ68	BRD2-8PQK	3.65	BZ-2RW899	FAD2-LW23	2.10
BA-2RT	FAD2-1A-5S	1.65	BZ-2RDT	BRD2-70-5S	1.95	BZ-2RQ77	BRD2-7PNK	4.14	BZ-2RW899-A2	FAD2-LW23-1S	2.20
BA-2R708P7	FAD2-1AK	2.70	BZ-2RDS	BRD2-12B	4.00	BZ-2RQ81	BRD2-8PR1	6.15	BZ-2RW899T	FAD2-LW23-5S	2.20
BA-2RB	FRD-1A1RK	4.10	BZ-2RDS-A2	BRD2-12B-1S	4.10	BZ-2RQ81-A2	BRD2-8PR1-1S	6.25	BZ-2RW8255	BRD2-LW28B	3.28
BA-2RB-A2	FRD2-1AK	2.62	BZ-2RDS-P4	BRD2-12B-4T	4.24	BZ-2RQ81T	BRD2-8PR1-5S	6.25	BZ-2RW8255-A2	BRD2-LW28B-1S	3.38
BA-2RB	FAD2-40	2.14	BZ-2RDS	BRD2-12B-5S	4.10	BZ-2RQ181	BRD2-24P0	6.15	BZ-2RW8255-P4	BRD2-LW28B-4T	3.62
BA-2RB-A2	FAD2-40-1S	1.95	BZ-RL	BRD-5L	2.06	BZ-2RQ181-A2	BRD2-24P0-1S	6.25	BZ-2RW8255T	BRD2-LW28B-5S	3.38
BA-2RB	FAD2-40-5S	1.95	BZ-RL-A2	BRD-5L-1S	2.14	BZ-2RQ181-P4	BRD2-24P0-4T	6.40	BZ-2RW8255T	BRD2-LW28B-5S	3.38
BA-2RL	FAD2-5L	1.87	BZ-RL2	BRD-2M	2.58	BZ-2RQ181T	BRD2-24P0-5S	6.25	BZ-2RW82255	BRD2-LW228B	3.28
BA-2RL-A2	FAD2-5L-1S	1.75	BZ-RL2-A2	BRD-2M-1S	2.66	BZ-2RQ784	BRD2-8PRK	6.08	BZ-2RW82255-A2	BRD2-LW228B-1S	3.38
BA-2RLT	FAD2-5L-5S	1.75	BZ-2RL	BRD2-5L	1.65	BZ-2RQ785	BRD2-8PRK	6.08	BZ-2RW82255-P4	BRD2-LW228B-4T	3.62
BA-2RL2	FAD2-2M	2.44	BZ-2RL-A2	BRD2-5L-1S	1.75	BZ-2RQ785	BRD2-8PRK	6.08	BZ-2RW82255T	BRD2-LW228B-5S	3.38
BA-2RL2-A2	FAD2-2M-1S	2.25	BZ-2RL-P1	BRD2-5L-4T	1.93	BRD-10	BRD-10	2.34	BRD2-7PNB	BRD2-7PNB-1S	3.90
BA-2RL2T	FAD2-2M-5S	2.25	BZ-2RL-P4	BRD2-5L-4T	1.93	BZ-RS-A2	BRD-10-1S	2.42	BRD2-7PNB-1S	BRD2-7PNB-5S	4.00
BA-2RQ	FAD2-3P	3.33	BZ-2RLT	BRD2-5L-5S	1.75	BZ-RSX	BRD-101R	2.04	BRD2-7PNB-5S	BRD-LW81R	2.08
BA-2RQ-A2	FAD2-3P-1S	3.06	BZ-2RL2	BRD2-2M	2.15	BZ-2RS	BRD2-10	1.85	BZ-RW80X	BRD-1A1R	1.70
BA-2RQT	FAD2-3P-5S	3.06	BZ-2RL2-A2	BRD2-2M-1S	2.25	BZ-2RS-A2	BRD2-10-1S	1.95	BZ-RX	BRD-1A1R	1.70
BA-2RQ1	FAD2-1P	3.78	BZ-2RL2-P1	BRD2-2M-4T	2.46	BZ-2RS-P1	BRD2-10-4T	2.10	BZ-3YDT	BRD3-Y70-5S	4.72
BA-2RQ1-A2	FAD2-1P-1S	3.55	BZ-2RL2-P4	BRD2-2M-4T	2.46	BZ-2RS-P4	BRD2-10-4T	2.10	BZ-3YLT	BRD3-Y5L-5S	4.56
BA-2RQ1T	FAD2-1P-5S	3.55	BZ-2RL2T	BRD2-2M-5S	2.25	BZ-2RST	BRD2-10-5S	1.95	BZ-3YLT2	BRD3-Y2M-5S	4.66
BA-2RQ9	FAD2-8PR	6.35	BZ-2RL55	BRD2-5LB	2.52	BZ-2RS55	BRD2-10B	2.72	BZ-3YN702	BRD3-Y2PNK	6.40
BA-2RQ9-A2	FAD2-8PR-1S	6.25	BZ-2RL55-A2	BRD2-5LB-1S	2.62	BZ-2RS55-A2	BRD2-10B-1S	2.82	BZ-3YQ67T	BRD3-Y7PNK	6.40
BA-2RQ9T	FAD2-8PR-5S	6.25	BZ-2RL55-P4	BRD2-5LB-4T	2.86	BZ-2RS55-P4	BRD2-10B-4T	3.06	BZ-3YQ68T	BRD3-Y8PQK	6.04
BA-2RQ9	FAD2-8PR1	6.35	BZ-2RL55T	BRD2-5LB-5S	2.62	BZ-2RS55T	BRD2-10B-5S	2.82	BZ-3YQ69T	BRD3-Y8PRK	8.20
BA-2RQ9-A2	FAD2-8PR1-1S	6.25	BZ-2RL255	BRD2-2MB	3.02	BZ-2RW	BRD2-LW8	1.90	BRD3-Y8PRK	BRD3-Y8PRK	8.20
BA-2RQ9T	FAD2-8PR1-5S	6.25	BZ-2RL255-A2	BRD2-2MB-1S	3.12	BZ-2RW-A2	BRD2-LW8-1S	2.00	BRD3-Y8PRK	BRD3-Y8PRK	8.20
BA-2RQ81	FAD2-8PR1	6.35	BZ-2RL255-P4	BRD2-2MB-4T	3.36	BZ-RW80	BRD-LW8	1.98	BZ-7YST	BRD7-Y10-5S	4.95
BA-2RQ81-A2	FAD2-8PR1-1S	6.25	BZ-2RL255T	BRD2-2MB-5S	3.12	BZ-RW80-A2	BRD-LW8-1S	2.08	BZ-3YT	BRD3-Y1A-5S	4.46
BA-2RQ81T	FAD2-8PR1-5S	6.25	BZ-RLX	BRD-5L1R	1.80	BZ-RW82	BRD-LW28	2.50	BZ-3YST	BRD3-Y10-5S	4.70
BA-2RS	FAD2-10	2.14	BZ-2RM	BRD2-LX	1.95	BZ-RW82-A2	BRD-LW28-1S	2.60	BZ-3YWT80	BRD3-YLW8-5S	4.78
BA-2RS-A2	FAD2-10-1S	1.95	BZ-2RM-A2	BRD2-LX-1S	2.00	BZ-RW84	BRD-LW48	1.98	BZ-3YWT82	BRD3-YLW28-5S	5.20
BA-2RST	FAD2-10-5S	1.95	BZ-2RM2	BRD2-LX2	2.50	BZ-RW84-A2	BRD-LW48-1S	2.08	BZ-3YWT82	BRD3-YLW28-5S	5.20
BA-2RV	FAD2-LV	2.24	BZ-2RM2-A2	BRD2-LX2-1S	2.60	BZ-RW822	BRD-LW228	2.50	BZ-3YWT84T	BRD3-YLW48-5S	4.78
BA-2RV-A2	FAD2-LV-1S	2.00	BZ-2RM22	BRD2-LX22	2.50	BZ-RW822-A2	BRD-LW228-1S	2.60	BZ-7YT	BRD7-Y1A-5S	4.60
BA-2RVT	FAD2-LV-5S	2.00	BZ-2RM22-A2	BRD2-LX22-1S	2.60	BZ-2RWT	BRD2-LW8-5S	2.00	BZE-RN	SBH-7PN	6.24
BA-2RV2	FAD2-LV2	2.68	BZ-2RM22T	BRD2-LX22-5S	2.60	BZ-2RW2	BRD2-LW8-4T	2.20	BZE-RNX1	SBH-7PN7PN	9.80
BA-2RV2-A2	FAD2-LV2-1S	2.50	BLLD-1		2.10	BZ-2RW2-A2	BRD2-LW28	2.40	BZE-RN2X1	SBH-2PN27PN	13.12
BA-2RV2T	FAD2-LV2-5S	2.50	BLLD-1MC		2.10	BZ-2RW2-P1	BRD2-LW28-1S	2.50	BZE-RQ	SBH-6PQ	4.80
BA-2RV22	FAD2-LV22	2.68	BLRD-1		2.35	BZ-2RW2T	BRD2-LW28-4T	2.73	BZE-RQ2	SBH-8PQ2	8.40
BA-2RV22-A2	FAD2-LV22-1S	2.50	BLRD-1MC		2.35	BZ-2RW4	BRD2-LW48	1.90	BZE-RQ9	SBH-8PR	8.40
BA-2RV22T	FAD2-LV22-5S	2.50	BLLD-4S0		1.95	BZ-2RW4-A2	BRD2-LW48-1S	2.00	BZE-RQ9	SBH-8PR1	8.40
BA-3ST	FAD3-H1A-5S	4.00	BLLD-4SP		1.95	BZ-2RW4T	BRD2-LW48-4T	2.20	BZE-RQX2	SBH-6PQ6PQ	7.40
BAF1-2RN-RH	FHD2-7PN	9.35	BLLD-4MC		1.95	BZ-2RW22	BRD2-LW228	2.40	BZE-RQX2	SBH-8PQ26PQ	10.70
BAF1-2RN-LH	FHD2-7PN	9.35	BLLD-4SC		2.10	BZ-2RW22-A2	BRD2-LW228-1S	2.50	BZE-RQX2	SBH-8PR6PQ	10.66
BAF1-2RN2-RH	FHD2-2PN2	11.40	BLRD-4S0		2.10	BZ-2RW22-P1	BRD2-LW228-4T	2.73	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RN2-LH	FHD2-2PN2	11.40	BLRD-4S0		2.10	BZ-2RW22T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RN4-RH	FHD2-2PN4	11.40	BZ-2RN702	BRD2-2PNK	4.12	BZ-2RW80	BRD2-LW8	1.90	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RN4-LH	FHD2-2PN4	11.40	BZ-RN702	BRD-2PN2RK	4.26	BZ-2RW80-A2	BRD2-LW8-1S	2.00	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ9-RH	FHD2-8PR	11.35	BZ-RQ	BRD-3P	3.00	BZ-2RW80-P1	BRD2-LW8-4T	2.20	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ9-LH	FHD2-8PR	11.35	BZ-RQ-A2	BRD-3P-1S	3.14	BZ-2RW80-P4	BRD2-LW8-4T	2.20	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PR	11.60	BZ-RQ1	BRD-1P	3.52	BZ-2RW80T	BRD2-LW8-5S	2.00	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PR	11.60	BZ-RQ1-A2	BRD-1P-1S	3.62	BZ-2RW82	BRD2-LW8	2.40	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.10	BZ-RQ1X	BRD-1P1R	3.64	BZ-2RW82-A2	BRD2-LW28	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.10	BZ-RQ66	BRD-6PQK	3.64	BZ-2RW82-P1	BRD2-LW28-1S	2.73	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ67	BRD-7PNK	4.14	BZ-2RW82-P4	BRD2-LW28-4T	2.73	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ68	BRD-8PQK	3.65	BZ-2RW82T	BRD2-LW28-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW84	BRD2-LW48	1.90	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW84-A2	BRD2-LW48-1S	2.00	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW84-P4	BRD2-LW48-4T	2.20	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW84T	BRD2-LW48-5S	2.00	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822	BRD2-LW228	2.40	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822-A2	BRD2-LW228-1S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822-P1	BRD2-LW228-4T	2.73	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-RH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-LH	FHD2-8PN	15.85	BZ-RQ69	BRD-8PRK	6.08	BZ-2RW822T	BRD2-LW228-5S	2.50	BZE-RN28	SBH-2PN27PN	13.12
BAF1-2RQ98-R											



ELECTRICAL
15 amp 120-240-480 vac
1/8 hp. 120 vac - 1/4 hp. 240 vac
1/2 amp 120 vdc - 1/4 amp 240 vac
U.L. and C.S.A. listed

MECHANICAL
20 million cycles

MODEL B



7 TYPES AVAILABLE

- 1 GENERAL PURPOSE**
18 actuators available
- 2 REVERSE ACTION**
Shock proof and long life
- 3 HIGH SENSITIVITY**
1/4 of standard switch differential
For pressure and thermo sensing instruments
15 amp 120-240-480 vac rating
- 4 SEALED**
9 actuators available
Permanently sealed against dust and moisture
- 5 ADJUSTABLE ACTUATORS**
Operating position can be varied from .001 to .250 inch
Available in single or dual assembly with Model B or Model F-rating
- 6 MAINTAINED CONTACT (Reset)**
5 actuators available
5 million cycles of precision performance
- 7 SPLIT AND DOUBLE BREAK CONTACTS**
For multiple circuitry
Split — two N.O., two N.C., and one common terminal
Double break — two N.O. and two N.C. terminals

TERMINAL AND BASE FOR BOTH MODEL B AND F

To order, simply add suffix (shown below) to Model No.

Flat Base

Step Base

Flat Base

Step Base

No Designation

Solder for No. 14 wire. No. 4-36 screw is used to mount terminal.

-1S No. 6-32 x 7/32" binder head screw and cup washer

-5S No. 6-32 x 7/32" binder head screw with lock washer 034-0030-06



-4T Side facing with 8-32 x 1/4" binder head screw and cup washer. Can only be ordered on B and B sealed products.



-8T 1/4" quick connect

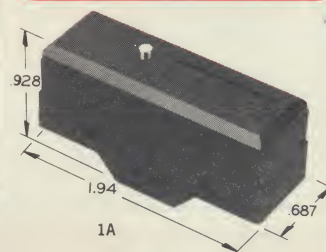
Split and Double Break - This special base construction using 5S terminal has these electrical ratings:

Split - 10 amp 115-250-480 vac
Double Break - 15 amp 1/4 hp 115 vac
30 amp 1/2 hp 250 vac

ELECTRICAL
21 amps 120-240-480 vac
1 hp 120 vac
2 hp 240 vac
U.L. and C.S.A. listed

MECHANICAL
20 million cycles

MODEL F

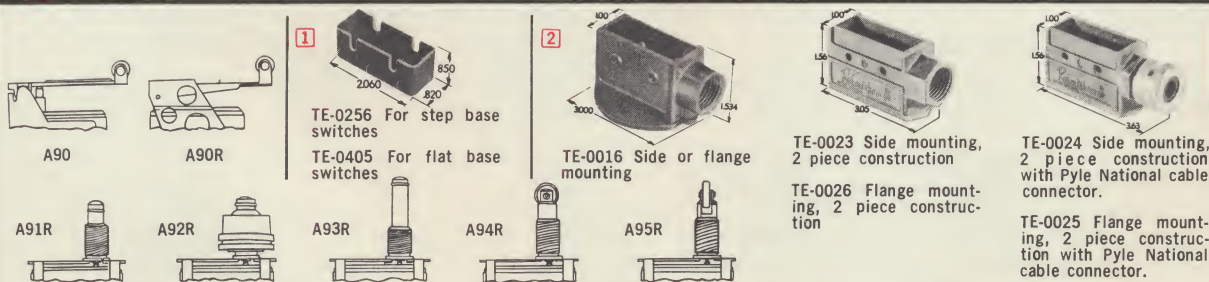


2 TYPES AVAILABLE

- 1 HEAVY DUTY**
13 actuators available
Rated for 2 hp
- 2 HIGH AMP - SENSITIVE**
22 amps at 120 vac
Movement differential of .001 max.



TYPES	MODEL No.	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	FAD2-1A	10-18 oz. max.	6 oz. min.	.050 in. max.	.005 in. min.	.0075 in. max.
	FAD2-5L	9 oz. max.	1 oz. min.	11/32 in. max.	.132 in. min.	.065 in. max.
	FAD2-LV	2 1/2 oz. max.	1/2 oz. min.	5/8 in. max.	.078 in. min.	.109 in. max.
	FAD2-LV22	6 oz. max.	1 oz. min.	1/4 in. max.	1/32 in. min.	3/64 in. max.
	FAD2-LW23	2 1/2 oz. max.	1/2 oz. min.	.375 in. max.	.093 in. min.	.007-.050 in.
	FAD2-40	10-18 oz. max.	6 oz. min.	.050 in. max.	3/32 in. min.	.0075 in. max.
	FAD2-1P	10-18 oz. max.	6 oz. min.	.050 in. max.	.219 in. min.	.0075 in. max.
2	MRD-1A	7-10 oz. max.	4 oz. min.	.030 in. max.	.005 in. min.	.001 in. max.



MODEL B-F ACCESSORIES

3 TYPES AVAILABLE

- 1 PLASTIC ENCLOSURES**
Protects terminals on flat or step base switches
- 2 METAL ENCLOSURES**
Terminal protectors have one or two piece construction and can be side or flange mounted
- 3 AUXILIARY ACTUATORS**
Assemblies for heavy duty applications

TYPES	ACTUATOR MODEL No.	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL	SWITCH MODEL No.
	A90	2 oz. max.	1/2 oz. min.	.250 in. max.	.500 in. min.	.030 in. max.	Use BRD2-10
	A90R	15 oz. max.	5 oz. min.	.218 in. nom.	.531 in. nom.	.025 in. max.	
	A91R	9-13 oz.	4 oz. min.	.020 in. max.	.187 in. min.	.004 in. max.	
	A92R	9-24 oz.	4 oz. min.	.078 in. max.	.187 in. min.	.004 in. max.	
	A93R	9-13 oz.	4 oz. min.	.020 in. max.	.812 in. min.	.004 in. max.	
	A94R	9-13 oz.	4 oz. min.	.020 in. max.	.109 in. min.	.004 in. max.	Use BRD2-1A
	A95R	9-13 oz.	4 oz. min.	.020 in. max.	.109 in. min.	.004 in. max.	
	A90	5 oz. max.	1/2 oz. min.	.250 in. max.	.500 in. min.	.040 in. max.	Use FAD2-10
	A90A	16 oz. max.	5 oz. min.	.218 in. nom.	.531 in. nom.	.035 in. max.	
	A91A	10-18 oz.	6 oz. min.	.050 in. max.	.187 in. min.	.0075 in. max.	
	A92A	10-29 oz.	6 oz. min.	.108 in. max.	.187 in. min.	.0075 in. max.	
	A93A	10-18 oz.	6 oz. min.	.050 in. max.	.812 in. min.	.0075 in. max.	
	A94A	10-18 oz.	6 oz. min.	.050 in. max.	.109 in. min.	.0075 in. max.	Use FAD2-1A
	A95A	10-18 oz.	6 oz. min.	.050 in. max.	.109 in. min.	.0075 in. max.	

MODEL BH

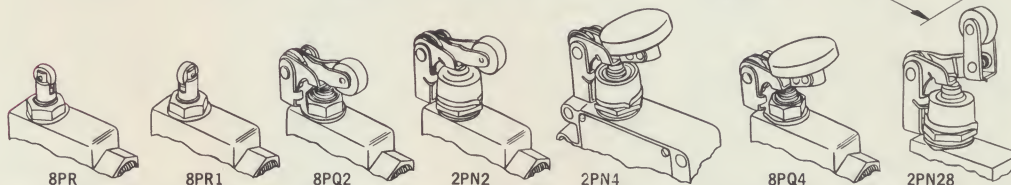
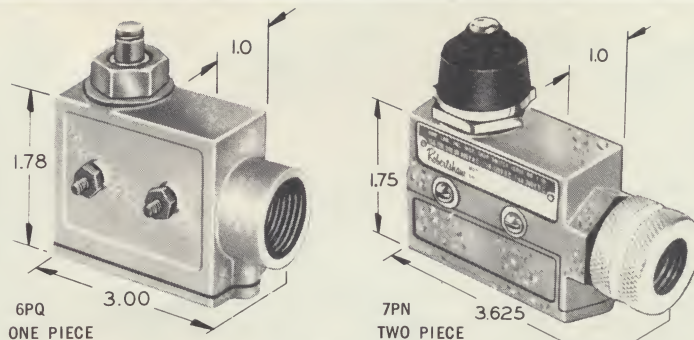
METAL ENCLOSED

4 TYPES AVAILABLE

- 1 GENERAL PURPOSE ONE PIECE CONSTRUCTION**
10 actuators available
One switch packaged for either flange or base mounting
- 2 GENERAL PURPOSE TWO PIECE CONSTRUCTION**
Simplified wiring
Exclusive external threaded enclosure with Pyle National cable connector.
- 3 HIGH SENSITIVITY TWO PIECE CONSTRUCTION**
Low movement differential for critical applications
- 4 MAINTAINED CONTACT (Reset) TWO PIECE CONSTRUCTION**
Top and bottom actuators have precision characteristics

ELECTRICAL
15 amps 120-240-480 vac
1/8 hp 120 vac - 1/4 hp 240 vac
The combination of metal enclosure and switch is U.L. and C.S.A. listed

MECHANICAL
20 million cycles

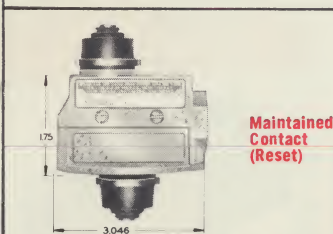


TYPES	MODEL No.	OPERATING FORCE	RELEASE FORCE	RESET FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	S-BRD2-7PN	9-24 oz.	4 oz. min.		.078 in. max.	.218 in. min.	.003 in. max.
	S-BRD2-6PQ	9-13 oz.	4 oz. min.		.020 in. max.	.7/32 in. min.	.003 in. max.
	S-BRD2-8PR	9-13 oz.	4 oz. min.		.020 in. max.	.9/64 in. min.	.003 in. max.
	S-BRD2-8PR1	9-13 oz.	4 oz. min.		.020 in. max.	.9/64 in. min.	.003 in. max.
	S-BRD2-8PQ2	10-18 oz.	6 oz. min.		.9/64 in. max.	.7/32 in. min.	.006 in. max.
	S-BRD2-2PN2	10-20 oz.	6 oz. min.		.172 in. max.	.7/32 in. min.	.008 in. max.
	S-BRD2-2PN28	8-20 oz.	6 oz. min.		.15/64 in. max.	.7/32 in. min.	.008 in. max.
2	S-BRD2-8PQ4	10-18 oz.	6 oz. min.		.266 in. max.	.219 in. min.	.006 in. max.
	*SBHT2-7PN	9-24 oz.	4 oz. min.		.078 in. max.	.219 in. min.	.003 in. max.
	SBH2-6PQ	9-13 oz.	4 oz. min.		.020 in. max.	.219 in. min.	.003 in. max.
	SBH2-8PR	9-13 oz.	4 oz. min.		.020 in. max.	.140 in. min.	.003 in. max.
	SBH2-8PR1	9-13 oz.	4 oz. min.		.020 in. max.	.140 in. min.	.003 in. max.
	SBH2-8PQ2	10-18 oz.	6 oz. min.		.3/16 in. max.	.219 in. min.	.006 in. max.
	SBH2-2PN2	10-20 oz.	6 oz. min.		.188 in. max.	.219 in. min.	.006 in. max.
3	SBH2-2PN28	8-20 oz.	6 oz. min.		.234 in. max.	.219 in. min.	.006 in. max.
	SBH2-8PQ4	10-18 oz.	6 oz. min.		.3/16 in. max.	.219 in. min.	.006 in. max.
	SBH-7PN	15 oz. max.	4 oz. min.		.078 in. max.	.219 in. min.	.0005 in. max.
	SBH-6PQ	7-9 oz.	4 oz. min.		.012 in. max.	.219 in. min.	.0005 in. max.
4	SBH-8PR	7-9 oz.	4 oz. min.		.012 in. max.	.140 in. min.	.0005 in. max.
	SBH-8PR1	7-9 oz.	4 oz. min.		.012 in. max.	.140 in. min.	.0005 in. max.
	SBH-7PN7PN	9-24 oz.		9-24 oz.	.078 in. max.	.219 in. min.	
	SBH-6PQ6PQ	5-9 oz.		15-30 oz.	.015 in. max.	.219 in. min.	
	SBH-8PR6PQ	5-9 oz.		15-30 oz.	.015 in. max.	.120 in. min.	
	SBH-8PQ26PQ	10-20 oz.		15-30 oz.	.188 in. max.	.219 in. min.	
	SBH-2PN27PN	10-20 oz.		9-24 oz.	.188 in. max.	.219 in. min.	

To order flange mounting, substitute "F" for "S" in Model No.

*"T" designates Pyle National cable connector. These are available with 7PN, 2PN2, 2PN28, and 2PN4 actuators only in split 2 piece housing. Two piece internally threaded enclosure is available with any actuator shown above.

"T" Exclusive New Cable Connector with neoprene rubber grommet will not allow oil or moisture to be forced around the threads or past the cable into the enclosure.



MODEL FH

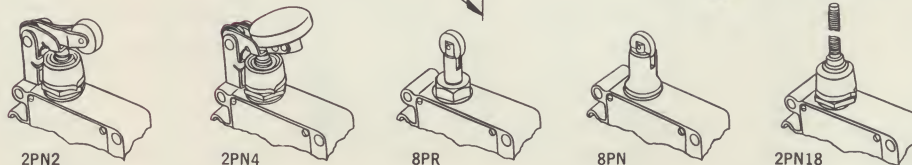
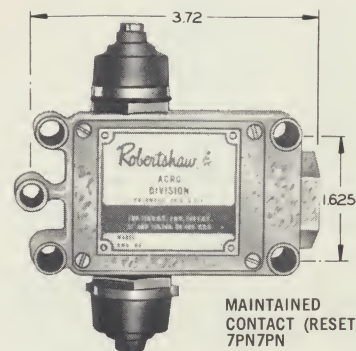
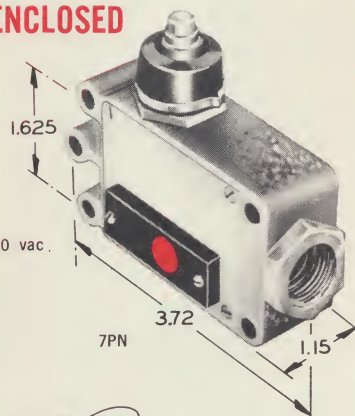
HEAVY DUTY METAL ENCLOSED

2 TYPES AVAILABLE

- 1 ONE HORSEPOWER RATED**
Mounts both right or left hand
Built-in indicator lite optional
Ease of switch replacement
Sealed enclosure
- 2 MAINTAINED CONTACT (Reset)**
Makes possible safety shut-off and maintains fully automatic operation where reverse cycles are required

ELECTRICAL
21 amp 120-240-480 vac
1 hp - 120 vac; 2 hp - 240 vac.
U.L. and C.S.A. listed

MECHANICAL
20 million cycles



TYPES	MODEL No.	OPERATING FORCE	RESET FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	*L-FHD2-7PN	2 1/2 lbs. max.		8 oz. min.	.094 in. max.	.219 in. min.	.010 in. max.
	FHD2-2PN2	2 lbs. max.		8 oz. min.	.219 in. max.	.218 in. min.	.020 in. max.
	FHD2-2PN4	2 lbs. max.		8 oz. min.	.219 in. max.	.219 in. min.	.020 in. max.
	FHD2-8PR	2 1/2 lbs. max.		8 oz. min.	.094 in. max.	.156 in. min.	.010 in. max.
	FHD2-8PN	8 lbs. max.		2 lbs. min.	.125 in. max.	.175 in. max.	.0075 in. max.
	FHD2-2PN18						
2	FBH-7PN7PN	1.75 lbs. max.	1.75 lbs. max.		.094 in. max.	.219 in. min.	

*Switch with one Acrolite.

Light can be mounted 3 places on housing or remotely.

ELECTRICAL (Model Z)
 5 amp, 120-240 vac
 3 amp sea level and 2.5 amp
 50,000 ft., 30 vdc inductive
 4 amp sea level and 4 amp
 50,000 ft., 30 vdc resistive
 U.L. and C.S.A. listed, 5 amp, 120-240 vac

MECHANICAL
 One million cycles with .010 gap
 and .005 overtravel

SUBMINIATURE

MODEL Z AND SERIES 4



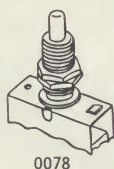
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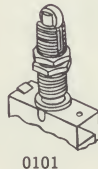
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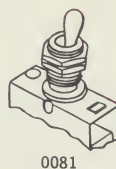
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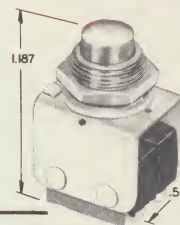
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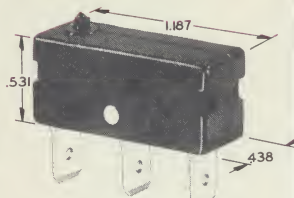
0101



0081



0092



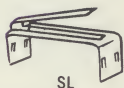
BBPD4

TYPES	MODEL No.	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	ZD-0024	85-140 gms.	1 oz. min.	.008-.020 in.	.010 in. min.	.001-.004 in.
	ZLD-0036	2 oz. max.	1/2 oz. min.	3/32 in. max.	.045 in. min.	.015 in. max.
	ZLD-0037	2 oz. max.	1/2 oz. min.	3/32 in. max.	.045 in. min.	.015 in. max.
	ZPD-0078	10 oz. max.	2 oz. min.	.050 in. max.	.125 in. min.	.030 in. max.
	ZPD-0101	10 oz. max.	2 oz. min.	.050 in. max.	.125 in. min.	.030 in. max.
	ZPD-0081	10 oz. max.	2 oz. min.	.050 in. max.	.125 in. min.	.030 in. max.
	ZPD-0092	15 oz. max.	3 oz. min.	.010 in. max.	.010 in. min.	.010 in. max.

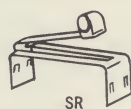
Above switches have post terminals. Pin actuator can be ordered with any one of five types of terminals: post (solder), turret, double turret, baton (.057 dia.) and quick connect (.110 wide). Other actuators are available only with post terminals (solder).

ELECTRICAL (Model Series 4)
 15 amp, 125 or 250 vac
 1/4 hp, 125 or 250 vac
 U.L. and C.S.A. listed

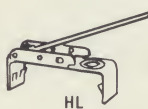
MECHANICAL
 1 million cycles
 One million cycles



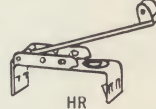
SL



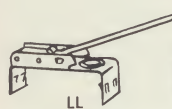
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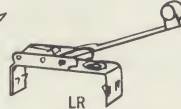
HL



HR



LL



LR

TYPES	MODEL No.	OPERATING FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
2	*BBPD4 (Switch only)	4 1/2-8 oz.	.030 in. max.	.005 in. min.	.002-.008 in.
	SL (Actuator)	6 oz. max.	1/4 in. max.	1/16 in. min.	.078 in. max.
	SR (Actuator)	6 oz. max.	1/4 in. max.	1/16 in. min.	.078 in. max.
	HL (Actuator)	9-16 1/2 gms.	7/16 in. max.	1/16 in. min.	.028-.112 in.
	HR (Actuator)	9 1/2-17 1/2 gms.	13/32 in. max.	1/16 in. min.	.026-.105 in.
	LL (Actuator)	5 oz. max.	9/32 in. max.	7/32 in. min.	.018-.075 in.
	LR (Actuator)	5 oz. max.	9/32 in. max.	7/32 in. min.	.017-.070 in.

*To obtain desired terminal add suffix; (SP) = 1/4" quick connect; (SO) = solder; (SC) = No. 4 screw.

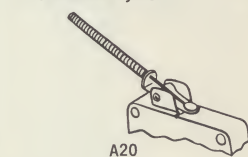
ELECTRICAL (Model CM)
 3 amp 125-250 vac
 U.L. and C.S.A. listed

ELECTRICAL (Model M)
 10 amp 125-250 vac
 U.L. and C.S.A. listed

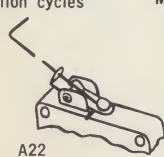
ELECTRICAL (Buffer)
 .010 amp .030 vac. min.
 1 amp 24 vac max.
 U.L. and C.S.A. listed

ELECTRICAL (Probe)
 .002 amp .010 vac min.
 2 amp 240 vac max.
 U.L. and C.S.A. listed

MINIATURE MODEL CM & M



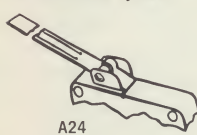
A20



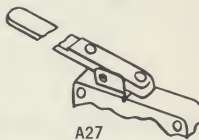
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A23M



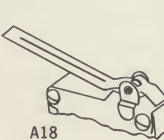
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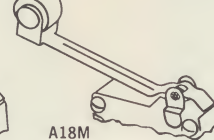
A27



A19M



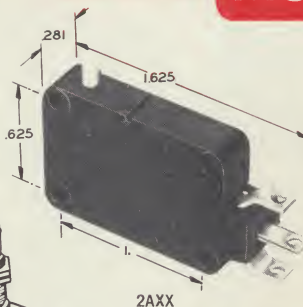
A18



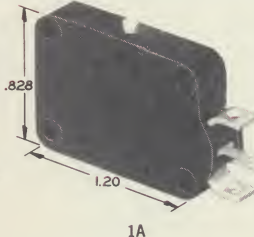
A18M



A14



2AXX



1A

TYPES	MODEL No.	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	1CMD1-2AXX	20-27 gms.	12 gms. min.	.040 in. max.	.050 in. max.	.030 in. max.
	1CMD1-18AXX-A20	8 gms. max.		.400 in. max.		
	1CMD1-2AXX-A22	2.5 gms. max.		Above characteristics are not applicable to this switch		.500 in. max.
	1CMD1-1AXX-A23M	5-8 oz.	2 oz. min.	.040 in. max.	.050 in. max.	.030 in. max.
	1CMD1-2AXX-A24	2.5 gms. max.		Above characteristics are not applicable to this switch		.500 in. max.
2	*1CMD1-18AXX-A27	6 gms. max.		Above characteristics are not applicable to this switch		.233 in. max.
	1CMD1-2AXX-A19M	20-27 gms.	12 gms. min.	.040 in. max.		.030 in. max.
	1MD1-1A	6 oz. max.	1.5 oz. min.	1/32 in. max.	.025 in. min.	.007 in. max.
	1MD1-1A-A18	2 oz. max.	1/2 oz. min.	5/32 in. max.	1/16 in. min.	.050 in. max.
	1MD1-1A-A18M	2 oz. max.	1/2 oz. min.	5/32 in. max.	1/16 in. min.	.050 in. max.
3	1MD1-1A-A14	12 oz. max.	3 oz. min.	1/32 in. max.	7/32 in. min.	.050 in. max.
	**1CMD1-18AXX-A22-46	20-27 gms.	12 gms. min.	.040 in. max.	*0.62 in. min.	.030 in. max.
	**1CMD1-2AXX-78	20-27 gms.	12 gms. min.	.040 in. max.	*0.62 in. min.	.030 in. max.
	***1CMD1-18AXX-A22-45	20-27 gms.	12 gms. min.	.040 in. max.	*0.62 in. min.	.030 in. max.
	***1CMD1-2AXX-77	20-27 gms.	12 gms. min.	.040 in. max.	*0.62 in. min.	.030 in. max.

*.012 to .045 overtravel recommended for optimum performance. ** Buffered. *** Probe.

3 TYPES AVAILABLE

1 MODEL CM

Grams operating force
 8 actuators available
 Auxiliary actuators shipped separately for ease of installation

2 MODEL M

First 10 amp miniature switch
 Easily ganged for multiple poles
 Auxiliary actuator gives choice of operating force
 Auxiliary actuators shipped separately for ease of installation

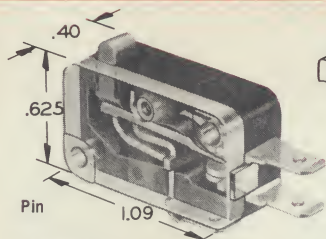
3 DRY CIRCUIT SWITCHES

Buffer contacts for no bounce applications
 Probe contacts for dry circuit applications

MODEL V

WITH INTEGRAL AND AUXILIARY ACTUATORS

Solder, quick-connect, and screw terminal are all standard.



ELECTRICAL
15 amp, 125-250 vac
1/2 hp, 125 vac; 1 hp, 250 vac
10 amp, 30 vac
U.L. and C.S.A. listed

MECHANICAL
10 million cycles

5 TYPES AVAILABLE

1 STANDARD

Nine integral actuators available

2 LOW FORCE

Operating force as low as 75 grams

3 EXTRA LONG LIFE

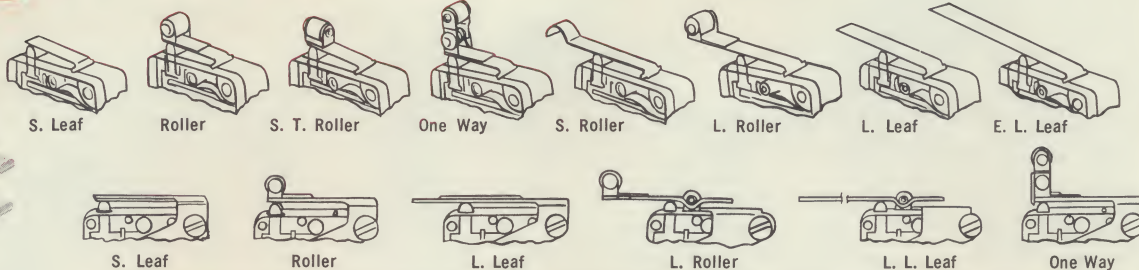
20 million cycles

4 LOW DIFFERENTIAL

One-seventh that of standard switch

5 AUXILIARY ACTUATORS

Makes available switch characteristics not obtainable with integral actuator



TYPES	ACTUATOR	TERMINAL	MODEL No.	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	MOVEMENT DIFFERENTIAL
1	Pin	Quick Connect	VD-0004	14 oz. max.	4 oz. min.	.047 in. max.	.031 in. min.	.014 in. max.
	S. Leaf	Quick Connect	VLD-0011	14 oz. max.	2 oz. min.	.062 in. max.	.031 in. min.	.016 in. max.
	L. Leaf	Quick Connect	VLD-0014	8 oz. max.	1 oz. min.	.156 in. max.	.062 in. min.	.045 in. max.
	Roller	Quick Connect	VLD-0017	14 oz. max.	2 oz. min.	.062 in. max.	.031 in. min.	.016 in. max.
	L. Roller	Quick Connect	VLD-0020	8 oz. max.	1 oz. min.	.156 in. max.	.062 in. min.	.045 in. max.
	S. T. Roller	Quick Connect	VLD-0023	14 oz. max.	2 oz. min.	.062 in. max.	.031 in. min.	.016 in. max.
	One Way	Quick Connect	VLD-0029	14 oz. max.	2 oz. min.	.062 in. max.	.015 in. min.	.016 in. max.
	S. Roller	Quick Connect	VLD-0039	8 oz. max.	1 oz. min.	.125 in. max.	.062 in. min.	.050 in. max.
	E. L. Leaf	Quick Connect	VLD-0042	4 oz. max.	5 oz. min.	.260 in. max.	.100 in. min.	.090 in. max.
2	L. Leaf	Quick Connect	VLD-0508	4 oz. max.	1/2 oz. min.	.125 in. max.	.062 in. min.	.045 in. max.
	Roller	Quick Connect	VLD-0511	8 oz. max.	1 1/2 oz. min.	.062 in. max.	.031 in. min.	.016 in. max.
	S. Roller	Quick Connect	VLD-0517	4 oz. max.	.75 oz. min.	.125 in. max.	.062 in. min.	.050 in. max.
3	Pin	Quick Connect	VD-0032	6-14 oz.	4 oz. min.	.047 in. max.	.010-.024 in.	.014 in. max.
4	Pin	Quick Connect	VD-1000	7-12 oz.	5 oz. min.	3/64 in. max.	.031 in. min.	.002-.006 in.
5	*S. Leaf	Quick Connect	A-40	18 oz. max.	6 oz. min.		.030 in. min.	.016 in. max.
	*Roller	Quick Connect	A-41	18 oz. max.	4 oz. min.		.030 in. min.	.016 in. max.
	*L. Leaf	Quick Connect	A-42	15 oz. max.	6 oz. min.		.050 in. min.	.025 in. max.
	*L. Roller	Quick Connect	A-43	5 oz. max.	1 oz. min.		.060 in. min.	.075 in. max.
	*L. L. Leaf	Quick Connect	A-44	2 1/4 oz. max.	1/4 oz. min.		.140 in. min.	.185 in. max.
	*One Way	Quick Connect	A-45	18 oz. max.			.020 in. min.	.016 in. max.

*Use VD-0004 switch. Quick connect (.187 wide). Any actuator available with solder or 4/40 screw terminal switches.

MODEL H & J ROTARY

2 TYPES AVAILABLE

1 MODEL H

Grams operating force can be supplied in a clockwise or a counter clockwise rotation. Separate actuating wires and retaining rings supplied with switch at no charge.

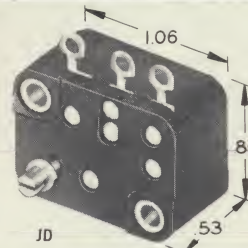
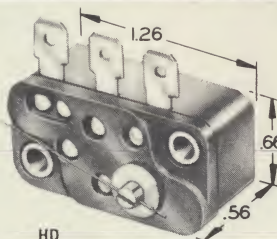
2 MODEL J

Counter-clockwise return and set type rotary switch.

.024 dia. actuating wire not supplied. No retaining ring is required.

ELECTRICAL
5 amp, 120-240 vac
U.L. and C.S.A. listed

MECHANICAL
5 million cycles



TYPES	MODEL No.	ROTATION	TERMINAL TYPE	ANGLE	OPERATING FORCE	RELEASE FORCE	STARTING POSITION FROM DATUM LINE	OPERATING LIMITS DOWN STROKE	OPERATING LIMITS RETURN STROKE	AFTER TRAVEL	MOVEMENT DIFFERENTIAL
1	HD-0200	CW	Solder	-----	3 gms. in max.	.5 gms. in. min.	15° ± 1°	15-21°	5-13°	5° min.	8° min.
	HD-0400	CW	Tab .205	Straight	3 gms. in max.	.5 gms. in. min.	15° ± 1°	15-21°	5-13°	5° min.	8° min.
	HD-0404	CW	Tab .205	60° angle	3 gms. in max.	.5 gms. in. min.	15° ± 1°	15-21°	5-13°	5° min.	8° min.
	HD-0700	CCW	Tab .205	60° angle	4 gms. in max.	.35 gms. in. min.	26° ± 2°	15-21°	5-13°	5° min.	8° min.

- Datum Line is fixed horizontal reference line from which starting position of Operating Down Stroke is located.
- All switches have Total Travel of 38 degrees minimum.
- After Travel is specified in place of Overtravel.
- Movement Differential is obtained from "snap-on" in Operatings Limits Down Stroke to "snap-off" in Operating Limits Return Stroke.
- Order separately 3 or 6 inch actuating wire and retaining ring.

TYPES	MODEL No.	TERMINAL TYPE	CIRCUIT	OPERATING FORCE	RELEASE FORCE	PRETRAVEL	OVERTRAVEL	AFTERTRAVEL
2	JD-0001	Return	D.T.	4 gms. in. max.	5 gms. in. min.	20° max.	20° min.	5° min.
	JD-0002	Return	S.T.	4 gms. in. max.	5 gms. in. min.	20° max.	20° min.	5° min.
	JD-0052	Set	D.T.	3 gms. in. max.	3 gms. in. min.	**20° max.	**20° min.	

Only supplied in counter-clockwise rotation and with solder terminals. Use lock washer under mounting screw head. **Both directions.

MODEL D

PANEL MOUNT

3 TYPES AVAILABLE

1 PLASTIC PLUNGER

Red button with normally closed switch
Black button with normally open switch

2 OVERTRAVEL PLUNGER

Approximately 1/4" overtravel

3 PLUNGER WITH FACE NUTS

Beveled or knurled type for panel installation of either plastic or overtravel plunger types

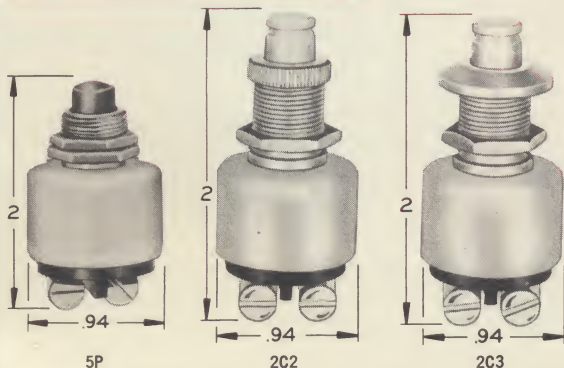
ELECTRICAL
12 amp, 125 vac
6 amp, 230 vac
U.L. and C.S.A. listed

MECHANICAL
500,000 cycles

TYPES	MODEL No.	CIRCUIT	OPERATING FORCE	PRETRAVEL	OVERTRAVEL	RELEASE FORCE	MOVEMENT DIFFERENTIAL
1	3D05-5P	N.O.	10-15 oz.	.100 in. max.	.007 in. min.	4 oz. min.	.035 in. max.
	3DC5-5P	N.C.	10-15 oz.	.070 in. max.	.007 in. min.	4 oz. min.	.035 in. max.
2	3D05-8P	N.O.	10-15 oz.	.100 in. max.	.218 in. min.	4 oz. min.	.035 in. max.
	3DC5-8P	N.C.	10-15 oz.	.070 in. max.	.218 in. min.	4 oz. min.	.035 in. max.
3	2C2	Facenuts - Knurled					
	2C3	Facenuts - Beveled					

Order facenuts separately.

Above numbers have solder terminals
Add suffix to obtain other standard terminals
4T = Quick Connect-1/4 in.
2T = Screw 6-40 x 3/16 in.



PRECISION SNAP SWITCH CROSS REFERENCE CHART

HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price	HONEYWELL Model No.	ROBERTSHAW Model No.	List Price
	FBH2-8PQ4	9.20		VLD-0044	1.18		2BRD2-LD61-1S	5.55		CTMLD-0102	2.00
BZV-2RQ8	SF-BRD2-8PR	8.20		VLD-0505	1.12		2BRD2-LD401-1S	5.05		CTMLD-0103	2.00
BZV-2RQ81	SF-BRD2-8PR1	8.20		VLD-0506	1.04		2BRD2-LD601-1S	5.05		TMD-0005	1.55
				VLD-0507	1.18					TMD-0006	1.55
BZV-3YN2	FBH3-Y2PN2	12.08		VLD-0508	1.04		2BRD2-LD801	5.30		TMD-0126	1.55
BZV-3YNP	FBH3-Y7PN	9.14		VLD-0509	1.12		2FRD2-LD-31-1S	5.65		TMD-0127	1.55
BZV-3YQ2	FBH3-Y8PQ2	11.68		VLD-0510	1.18		2FRD2-LD41-1S	6.15			
BZV-3YQ9	FBH3-Y8PR	10.78					2FRD2-LD301-1S	4.65		1CMDI-2AXX	1.45
BZV3-YQ9	FBH3-Y8PR1	10.78		VLD-0511	1.24		2FRD2-LD401-1S	5.15		1CMDI-2AXX-A20	1.85
BZE6-2RN	SBH2-7PN	6.55		VLD-0512	1.30					1CMDI-18AXX-A22	1.75
	SBHT2-7PN	6.75		VLD-0513	1.38					1CMDI-2AXX-A23M	1.75
BZE6-2RN2	SBH2-2PN2	9.85		VLD-0514	1.24	1PA2	1AP14	1.30		1CMDI-2AXX-A24	1.75
	SBHT2-2PN2	10.10		VLD-0515	1.30	1PA10	1AP12	1.00		1CMDI-18AXX-A27	1.75
	SBH2-2PN4	10.15				1PA13	1AP15	1.64		2CMDI-2AXX	1.45
	SBHT2-2PN4	10.40		VLD-0516	1.38	1PA-19	1AP13	1.00		2CMDI-2AXX-A22	1.75
BZE6-2RN28	SBH2-2PN28	11.30		VLD-0517	1.04		1AP16	1.00		2CMDI-2AXX-A24	1.75
	SBHT2-2PN28	11.60		VLD-0518	1.04		1AP17	2.20		3CMDI-2AXX	1.45
				VLD-0519	1.18		1AP18	2.50		3CMDI-2AXX-A22	1.75
BZE6-2RQ	SBH2-6PQ	5.15		VLD-0520	1.04		1AP19	4.00		3CMDI-2AXX-A24	1.75
BZE6-2RQ2	SBH2-8PQ2	8.70		VLD-0521	1.12	3PA1	TE-0016	1.65		1MD1-1A	1.45
BZE6-2RQ8	SBH2-8PR	8.70		VLD-0522	1.18		TE-0023	1.72		2MD1-1A	1.45
BZE6-2RQ62	SBH2-8PQ26	8.70	V-4-12	JO-0002	1.50	3PA2	TE-0016	1.65		2MD3-1A	1.45
BZE6-2RQ81	SBH2-8PR1	8.70	V-4-14	JD-0001	1.80		TE-0026	1.72		3MD1-1A	1.45
BZE2RQ9	SF-BRD2-8PR	8.20		JD-0004	1.80	3PA3	TE-0022	1.70		3MD3-1A	1.45
				JO-0005	1.50	3PA4	TE-0022	1.70			
BZV6-2RN	FBH2-7PN	6.55		HD-0200	1.80					A14 Acuator Kit	1.20
	FBHT2-7PN	6.75		HD-0201	1.85		TE-0024	1.85		A18 Acuator Kit	.40
BZV6-2RN2	FBH2-2PN2	9.85		HD-0202	1.85		TE-0025	1.85		A18M Acuator Kit	.60
	FBHT2-2PN2	10.10								A19 Acuator Kit	.40
	FBH2-2PN4	10.15		HD-0300	1.85	5PA1	TE-0405	.20		A19M Acuator Kit	.60
	FBHT2-2PN4	10.40		HD-0304	1.85	5PA2	TE-0256	.20			
BZV6-2RN28	FBH2-2PN28	11.30				5PA3				A31	.40
	FBHT2-2PN28	11.60		HD-0400	1.85		APD-6001	1.10		A31M	.60
				HD-0401	1.85		APD-6801	1.25			
BZV6-2RQ	FBH2-6PQ	5.15		HD-0409	1.85					BBPD-1	1.05
BZV6-2RQ2	FBH2-8PQ2	8.70		HD-0402	1.85		APLD-0201	1.40		BBPD-1MC	1.05
BZV6-2RQ8	FBH2-8PR	8.70					APLD-0301	1.25		BBPD-1R	2.05
BZV6-2RQ62	FBH2-8PQ26	8.70		HD-0403	1.85		APLD-6201	1.95		BBPD-4MC	1.10
BZV6-2RQ81	FBH2-8PR1	8.70		HD-0410	1.85		APLD-6301	1.55		BBPD-4SC	1.10
BZV2RQ9	SF-BRD2-8PR	8.20		HD-0404	1.85		APPD-6101	1.35		BBPD-4SO	1.10
				HD-0405	1.85		APPD-6401	1.50		BBPD-4SP	1.10
JR	A90	1.00		HD-0406	1.85		APPD-6601	2.15		BBPDD-1	2.70
JS2	A70	.25					APPD-6701	2.15		BBPDD-1MC	2.70
JS5	A72	.50		HD-0500	1.80					BHLD-1	1.50
JS7	A71	.30		HD-0600	1.85					BHLD-1MC	1.50
JV1	A40	.25		HD-0700	1.85					BHLD-4MC	1.70
JV5	A41	.50								BHLD-4SC	1.70
JV7	A42	.42		ZD0001	1.18					BHLD-4SO	1.70
JV20	A43	1.00	1SM1	ZD0024	1.18					BHLD-4SP	1.70
JV26	A44	.82	1SM1	ZD0021	1.18					BHLD-1	3.00
JV30	A45	2.00		ZD0023	1.18					BHLD-1MC	3.00
MC2711	A91R	1.45	1SM1H2	ZD0166	1.18					BHRD-1	1.95
MC2711H	A92R	2.46	1SM1T2	ZD0167	1.24					BHRD-1MC	1.95
MCA2711	A91A	1.56	1SM3	ZD0096	1.18					BHRD-4MC	1.95
MCA2711H	A92A	2.76	1SM3T	ZD0097	1.18					BHRD-4SC	1.95
MC7711	A93R	2.80	11SM1	ZD0024	1.18					BHRD-4SO	1.95
MCA7711	A93A	2.90	11SM1-H2	ZD0166	1.18					BHRD-4SP	1.95
MD3711Q	A94R	4.94	11SM1-T	ZD0021	1.18					BHRDD-1	3.45
MD3711Q1	A95R	4.86		ZD0021	1.18					BHRDD-1MC	3.45
MDA3711Q	A94A	5.04	11SM1-T2	ZD0167	1.24					BORD-1	4.30
MDA3711Q1	A95A	5.04	11SM3	ZD0096	1.18					BORD-1MC	4.30
	VD-1000	1.20	11SM3T	ZD0097	1.18					BORDD-1	5.55
	VD-1001	1.28								BORDD-1MC	5.55
V3-1	VD-0007	1.08		ZD0168	1.28					BOTD-1	3.00
V3-1-D8	VD-0004	.94		ZD0169	1.28					BOTD-1MC	3.00
V3-15	VD-0007	1.08		ZD0170	1.28					BOTDD-1	4.25
V3-17	VD-0001	1.02		ZD0171	1.28					BOTDD-1MC	4.25
V3-19	VD-0001	1.32	111SM1	ZLD0036	1.64					BPLD-1	1.60
V3-21	VD-0007	1.08	111SM1T	ZLD0035	1.64					BPLD-1MC	1.60
V3-23	VD-0007	1.08								BPMD-1	1.70
V3-26	VD-1002	1.34	111SM2	ZLD0037	1.98					BPMD-1MC	1.70
V3-29	VD-0007	1.08		ZLD0038	1.55					BPMDD-1	3.45
V3-32	VD-0001	1.02								BPMDD-1MC	3.45
V3-101	VD-0504	1.08	111SM2-T	ZLD0033	1.98					BPRD-1	1.85
V3-101-D8	VD-0501	.94		ZPD0078	4.55					BPRD-1MC	1.85
V3-119	VD-0503	1.02		ZPD0079	6.35					BSLD-4MC	1.35
V3-121	VD-0504	1.08								BSLD-4SC	1.35
V3-123	VD-0504	1.08		ZPD0080	8.10					BSLD-4SO	1.35
V3-401	VD-0007	1.08		ZPD0088	6.50					BSLD-4SP	1.35
V3-419	VD-0001	1.02		ZPD0089	8.25					BSRD-4MC	1.60
V3-601	VD-0031	1.54		ZPD0091	6.50					BSRD-4SC	1.60
	VD-0032	1.45	1PA1	1AP13	1.00					BSRD-4SO	1.60
	VD-0033	1.50	1PA3	1AP13	1.00					BSRD-4SP	1.60
V3L-1-D8	VLD-0011	1.04	1PA23	1AP12	1.00					BSTD-1	1.70
	VLD-0010	1.12		1AP16	1.00					BSTD-1MC	1.70
	VLD-0012	1.18		1AP17	2.20					BSTDD-1	3.45
	VLD-0013	1.12		1AP18	2.50					BSTDD-1MC	3.45
V3L-2-D8	VLD-0014	1.04		1AP19	4.00					BWLD-1	1.30
	VLD-0015	1.18	1PB5	ZPD0090	3.55					BWLD-1MC	1.30
	VLD-0016	1.30	2PB7	ZPD0092	5.00					BWLD-1	3.00
V3L-3-D8	VLD-0017	1.24	3PB7	ZPD0093	7.20					BWLD-1MC	3.00
	VLD-0018	1.38								BWLD-1	3.00
	VLD-0019	1.30		ZPD0101	6.25					BWLD-1MC	3.00
V3L-4-D8	VLD-0020	1.24	6AT2	ZTD0081	3.45					HL Acuator	.60
	VLD-0021	1.38	6AT3	ZTD0082	5.10					HR Acuator	.85
	VLD-0022	1.52		ZTD0083	7.55					LL Acuator	.75
	VLD-0023	1.44	6AS13	2BRD2-LD401	5.05					LR Acuator	1.00
	VLD-0024	1.58	6AS18	2BRD2-LD41	5.55					SL Acuator	.30
	VLD-0028	2.02		2BRD2-LD31	4.85					SR Acuator	.45
	VLD-0029	1.94		2BRD2-LD31-1S	5.05						
	VLD-0030	2.08									
V3L-5-D8	VLD-0039	1.04		2BRD2-LD301	3.85						
	VLD-0040	1.12		2BRD2-LD301-1S	4.05						
	VLD-0041	1.18									
V3L-6-D8	VLD-0042	1.04		2BRD2-LD21-1S	5.55						
	VLD-0043	1.12		2BRD2-LD41-1S	5.55						

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